

Claims

We claim:

1. A conveyor chain link for forming an oven and proofing chain which can be pulled through a substantially closed guide track, said link comprising:
 - a block link;
 - at least one longitudinal plate, said plate having one end pivotally fixed to said
 - 5 block link and a second end pivotally linkable to a block link of an adjacent conveyor chain link;
 - at least one horizontal roller fixed to said at least one longitudinal plate for guiding said link in the track; and
 - at least one vertical roller detachably fixed to said block link for supporting said link in the track.
2. The conveyor chain link as in claim 1, in which said vertical roller includes a stud extending from one side of said roller coaxial with an axis of rotation of said roller, and said stud is received in a bore formed in said block link to detachably fix said roller to said block link.
3. The conveyor chain link as in claim 1, including a sweeper extending from said at least one plate, wherein said sweeper urges debris along the track as said link passes through the track.
4. The conveyor chain link as in claim 3, in which said sweeper s formed from a material selected from a group consisting of plastic and metal.

5. The conveyor chain link as in claim 3, in which said sweeper is slidable relative to at least a portion of said at least one longitudinal plate.

6. The conveyor chain link as in claim 3, in which a stop plate fixed relative to said at least one longitudinal plate is engageable with said sweeper to square said sweeper relative to the track.

7. The conveyor chain link as in claim 1, including a second longitudinal plate extending substantially parallel to said at least one longitudinal plate, and said at least one horizontal roller is interposed between said second longitudinal plate and said at least one longitudinal plate.

8. The conveyor chain link as in claim 1, including a second vertical roller detachably fixed to said block link, which said block link includes opposing sides, and said at least one vertical roller is detachably fixed to one of said sides and said second vertical roller is detachably fixed to another of said sides.

9. A conveyor chain link for forming an oven and proofing chain which can be pulled through a substantially closed guide track, said link comprising:

a block link;

a least one longitudinal plate, said plate having one end pivotally fixed to said block link and a second end pivotally linkable to a block link of an adjacent conveyor chain link;

at least one vertical roller fixed to said block link for supporting said link in the track; and

a sweeper fixed relative to said at least one longitudinal plate for engaging debris in a track as the link passes through the track.

10. The conveyor chain link as in claim 9, in which said vertical roller is detachably fixed to said block link.

11. The conveyor chain link as in claim 10, in which said vertical roller includes a stud extending from one side of said roller coaxial with an axis of rotation of said roller, and said stud is received in a bore formed in said block link to detachably fix said roller to said block link.

12. The conveyor chain link as in claim 10, including a second vertical roller detachably fixed to said block link, wherein said block link includes opposing sides, and said at least one vertical roller is fixed to one of said sides and said second vertical roller is detachably fixed to another of said sides.

13. The conveyor chain link as in claim 9, in which said sweeper is formed from a material selected from a group consisting of plastic and metal.

14. The conveyor chain link as in claim 9, in which said sweeper is slidable relative to at least a portion of said at least one longitudinal plate.

15. The conveyor chain link as in claim 9, in which a stop plate fixed relative to said at least one longitudinal plate is engageable with said sweeper to square said sweeper relative to the track.

16. The conveyor chain link as in claim 9, in which at least one horizontal roller is fixed to said at least one longitudinal plate for guiding said link in a track.

17. The conveyor chain link as in claim 16, including a second longitudinal plate extending substantially parallel to said at least one longitudinal plate, and said at least one horizontal roller is interposed between said second longitudinal plate and said at least one longitudinal plate.

18. A conveyor chain link for forming an oven and proofing chain which can be pulled through a substantially closed guide track, said link comprising:

a block link;

a least one longitudinal plate, said plate having one end pivotally fixed to said block link and a second end pivotally linkable to a block link of an adjacent conveyor chain link;

at least one horizontal roller fixed to said at least one longitudinal plate for guiding said link in the track;

at least one vertical roller detachably fixed to said block link for supporting said link in the track, wherein said vertical roller includes a stud extending from one side of said roller coaxial with an axis of rotation of said roller, and said stud is received in a bore formed in said block link to detachably fix said roller to said block link; and

a sweeper fixed relative to said at least one longitudinal plate for engaging debris in a track as the link passes through the track.

19. The conveyor chain link as in claim 18, including a second vertical roller detachably fixed to said block link, wherein said block link includes opposing sides, and said at least one vertical roller is fixed to one of said sides and said second vertical roller is detachably fixed to another of said sides.

20. The conveyor chain link as in claim 18, in which said sweeper s formed from a material selected from a group consisting of plastic and metal.

21. The conveyor chain link as in claim 19, including a second longitudinal plate extending substantially parallel to said at least one longitudinal plate, and said at least one horizontal roller is interposed between said second longitudinal plate and said at least one longitudinal plate.

22. The conveyor chain link as in claim 19, in which said sweeper is slidable relative to at least a portion of said at least one longitudinal plate.

23. The conveyor chain link as in claim 19, in which a stop plate fixed relative to said at least one longitudinal plate is engageable with said sweeper to square said sweeper relative to the track.